

## AMENDMENT

### In the claims:

For the Examiner's convenience all pending claims are presented herein. Those claims that remain unchanged by this amendment are prefixed with "(Unchanged)". Please amend the claims as follows:

- 1 1. (Unchanged) A storage medium having stored therein a plurality of programming  
2 instructions executable by a processor, wherein when executed, the programming  
3 instructions implement a multi-media call application that effectuate quality of  
4 service (QOS) guaranty for a packet based multi-media call (CALL) through call  
5 associated individual media stream bandwidth control.
- 1 2. (Unchanged) The storage medium as set forth in Claim 1, wherein the programming  
2 instructions determine if a sub-net bandwidth manager (SBM) that manages network  
3 bandwidth is connected to a local area network (LAN) through which the CALL is  
4 conducted, and if the SBM is connected to the LAN, register the CALL with the SBM  
5 and reserve with the SBM bandwidth for subsequent allocation to media streams of  
6 the CALL.
- 1 3. (Unchanged) The storage medium as set forth in Claim 2, wherein the programming  
2 instructions make the determination, registration and bandwidth reservation for  
3 subsequent allocation to media streams of the CALL as an integral part of  
4 establishing a connection for the CALL.
- 1 4. (Unchanged) The storage medium as set forth in Claim 2, wherein the programming  
2 instructions further subsequently cause the SBM to allocate the reserved bandwidth  
3 for the CALL to individual media streams of the CALL.

1 5. (Unchanged) The storage medium as set forth in Claim 4, wherein the programming  
2 instructions invoke a bandwidth reservation service to request the SBM to allocate the  
3 reserved bandwidth for the CALL to individual ones of the media streams of the  
4 CALL, providing call level information to the bandwidth reservation service to enable  
5 the bandwidth reservation service to include the call level information in the requests  
6 for the SBM.

1 6. (Unchanged) The storage medium as set forth in Claim 5, wherein the programming  
2 instructions invoke the bandwidth reservation service to request the SBM to allocate a  
3 portion of the reserved bandwidth for the CALL to an individual media stream of the  
4 CALL while establishing an individual channel for the individual media stream  
5 during the CALL.

1 7. (Unchanged) The storage medium as set forth in Claim 1, wherein the CALL is an  
2 ITU-T H.323 compatible video conference call.

1 8. (Unchanged) The storage medium as set forth in Claim 7, wherein the programming  
2 instructions further determine if a call level admission control gatekeeper is  
3 connected to a local area network (LAN) through which the CALL is to be  
4 conducted, and if the call level admission control gatekeeper is connected to the  
5 LAN, register the CALL with the call level admission control gatekeeper, the  
6 registration being made in a manner that causes the call level admission control  
7 gatekeeper to determine whether to admit the CALL into the LAN without taking into  
8 consideration bandwidth requirement of the CALL.

1 9. (Unchanged) The storage medium as set forth in Claim 8, wherein the programming  
2 instructions make the determination and conditional registration as an integral part of  
3 establishing a connection for the CALL.

1 10. (Unchanged) A storage medium having stored therein a plurality of programming  
2 instructions executable by a processor, wherein when executed, the programming  
3 instructions implementing a bandwidth reservation service that requests a sub-net  
4 bandwidth manager (SBM) to allocate a portion of reserved bandwidth for a packet  
5 based multi-media call (CALL) to an individual media stream of the CALL,  
6 providing the SBM with call level information to allow the SBM to associate the  
7 individual media stream of the CALL with the reserved bandwidth of the CALL, the  
8 SBM managing network bandwidth of a local area network (LAN) through which the  
9 CALL is conducted.

1 11. (Unchanged) The storage medium as set forth in Claim 10, wherein the programming  
2 instructions request the SBM to allocate a portion the reserved bandwidth of the  
3 CALL to the individual media stream of the CALL while establishing an individual  
4 channel for the individual media stream during the CALL.

1 12. (Unchanged) The storage medium as set forth in Claim 10, wherein the programming  
2 instructions are integral part of an operating system.

1 13. (Unchanged) The storage medium as set forth in Claim 10, wherein the CALL is an  
2 ITU-T H.323 compatible video conference call.

1 14. (Unchanged) A method comprising:  
2 (a) a multi-media call application first reserving bandwidth for media streams  
3 of a packet based multi-media call (CALL) at a call level with a sub-net  
4 bandwidth manager (SBM) that manages network bandwidth of a local area  
5 network (LAN) through which the CALL is to be conducted; and  
6 (b) the multi-media call application subsequently causing the SBM to allocate  
7 the reserved bandwidth for the CALL to individual media streams of the

8 CALL, causing call level information to be provided to the SBM to enable the  
9 SBM to associate the individual media streams of the CALL with the reserved  
10 bandwidth of the CALL.

1 15. (Unchanged) The method as set forth in Claim 14, wherein (a) is performed as an  
2 integral part of the multi-media call application establishing a connection for the  
3 CALL.

1 16. (Unchanged) The method as set forth in Claim 14, wherein (b) comprises the multi-  
2 media call application invoking a bandwidth reservation service to request the SBM  
3 to allocate the reserved bandwidth for the CALL to the individual media streams of  
4 the CALL, providing the bandwidth reservation service with call level information for  
5 inclusion in the requests to enable the SBM to associate the individual media streams  
6 of the CALL with the CALL.

1 17. (Unchanged) The method as set forth in Claim 16, wherein (b) is performed on a per  
2 individual media stream basis as an integral part of establishing an individual channel  
3 for the individual media stream.

1 18. (Unchanged) The method as set forth in Claim 14, wherein the method further  
2 comprises (c) the multi-media call application determining if a call level admission  
3 control gatekeeper is connected to the LAN while establishing connection for the  
4 CALL.

1 19. (Unchanged) The method as set forth in Claim 18, wherein if the call level admission  
2 control gatekeeper is connected to the LAN, (c) further comprises the multi-media  
3 application registering the CALL with the call level admission control gatekeeper in a  
4 manner that causes the gatekeeper to determine whether to admit the CALL into the  
5 LAN without taking into consideration bandwidth requirement of the CALL.

- 1    20.    (Unchanged) An apparatus comprising:  
2                    a storage medium having stored therein a plurality of programming  
3                    instructions implementing a multi-media call application that effectuates  
4                    quality of service (QOS) guaranty for a packet based multi-media call (CALL)  
5                    using call associated individual media stream bandwidth control; and  
6                    a processor coupled to the storage medium that operates to execute the  
7                    programming instructions.
- 1    21.    (Unchanged) The apparatus as set forth in Claim 20, wherein the programming  
2                    instructions determine if a sub-net bandwidth manager (SBM) that manages network  
3                    bandwidth is connected to a local area network (LAN) through which the CALL is  
4                    conducted, and if the SBM is connected to the LAN, register the CALL with the SBM  
5                    and reserve with the SBM bandwidth for subsequent allocation to media streams of  
6                    the CALL.
- 1    22.    (Unchanged) The apparatus as set forth in Claim 21, wherein the programming  
2                    instructions make the determination, registration and bandwidth reservation for  
3                    subsequent allocation to media streams of the CALL as an integral part of  
4                    establishing a connection for the CALL.
- 1    23.    (Unchanged) The apparatus as set forth in Claim 21, wherein the programming  
2                    instructions further subsequently cause the SBM to allocate the reserved bandwidth  
3                    for the CALL to individual media streams of the CALL.
- 1    24.    (Unchanged) The apparatus as set forth in Claim 23, wherein the programming  
2                    instructions invoke a bandwidth reservation service to request the SBM to allocate the  
3                    reserved bandwidth for the CALL to individual ones of the media streams of the  
4                    CALL, providing call level information to the bandwidth reservation service to enable

5 the bandwidth reservation service to include the call level information in the requests  
6 for the SBM.

1 25. (Unchanged) The storage medium as set forth in Claim 24, wherein the programming  
2 instructions invoke the bandwidth reservation service to request the SBM to allocate a  
3 portion of the reserved bandwidth for the CALL to an individual media stream of the  
4 CALL while establishing an individual channel for the individual media stream  
5 during the CALL.

1 26. (Unchanged) An apparatus comprising:  
2 a storage medium having stored therein a plurality of programming  
3 instructions implementing a bandwidth reservation service that requests a sub-  
4 net bandwidth manager (SBM) to allocate a portion of reserved bandwidth for  
5 a packet based multi-media call (CALL) to an individual media stream of the  
6 CALL, providing the SBM with call level information to allow the SBM to  
7 associate the individual media stream of the CALL with the reserved  
8 bandwidth of the CALL, the SBM managing network bandwidth of a local  
9 area network (LAN) through which the CALL is conducted; and  
10 a processor coupled to the storage medium that operates to execute the  
11 programming instructions.

1 27. (Unchanged) The apparatus as set forth in Claim 26, wherein the programming  
2 instructions request the SBM to allocate a portion the reserved bandwidth of the  
3 CALL to the individual media stream of the CALL while establishing an  
4 individual channel for the individual media stream during the CALL.

1 28. (Unchanged) The apparatus as set forth in Claim 26, wherein the programming  
2 instructions are integral part of an operating system.